
Perceval

Software Project Data at your will

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Outline

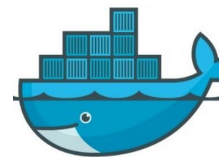
Context

Perceval

Perceval in action

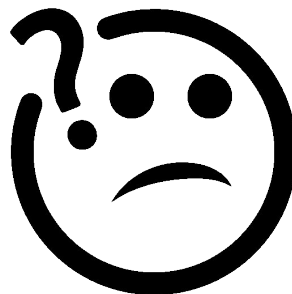
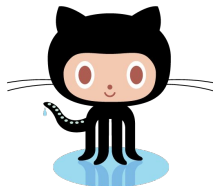
Exploitation

/context

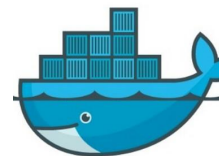


 Bitergia

/context



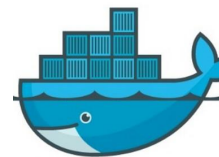
Are there new contributors?



/context

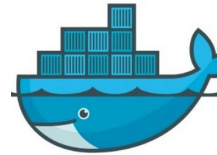


How many bugs were fixed
past month?





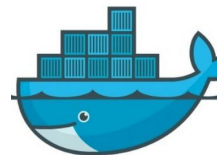
**Does our gender diversity has
increased lately?**



/perceval



Perceval gathers data for you

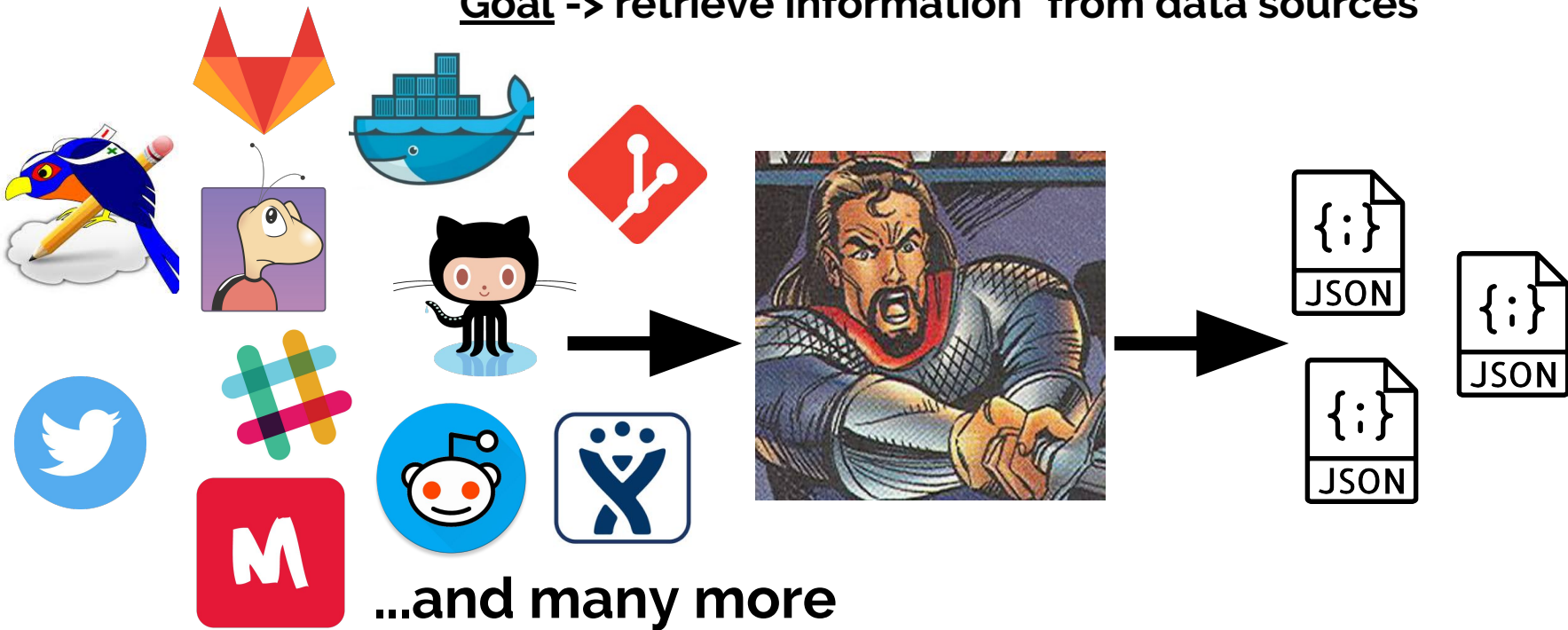


/perceval



/perceval

Goal -> retrieve information* from data sources



...and many more



* information: collection of items (issues, commits, ...)



Data source and Perceval data

```
{ "backend_name": "GitHub",  
  "backend_version": "0.13.0",  
  "category": "issue",  
  "data": {  
    "comments": 5,  
    "comments_data": [...]  
    "created_at": "2017-02-28T05:33:10Z",  
    ...,  
    "id": 210691361,  
    "state": "closed",  
    "title": "..",  
    "updated_at": "2017-03-02T09:51:49Z"  
  },  
  "origin": "https://github.com/grimoirelab/perceval",  
  "perceval_version": "0.9.10",  
  "tag": "https://github.com/grimoirelab/perceval",  
  "timestamp": 1517479766.878609,  
  "updated_on": 1488448309.0,  
  "uuid": "77a42463d5d0a34b1d58006263b85909a9788b52" }
```



Data source
data

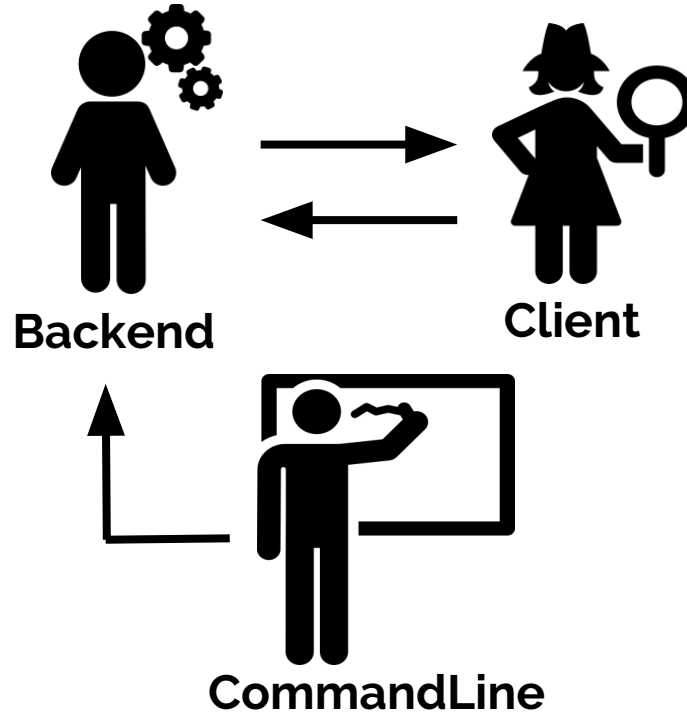


Perceval
data

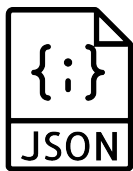
/perceval



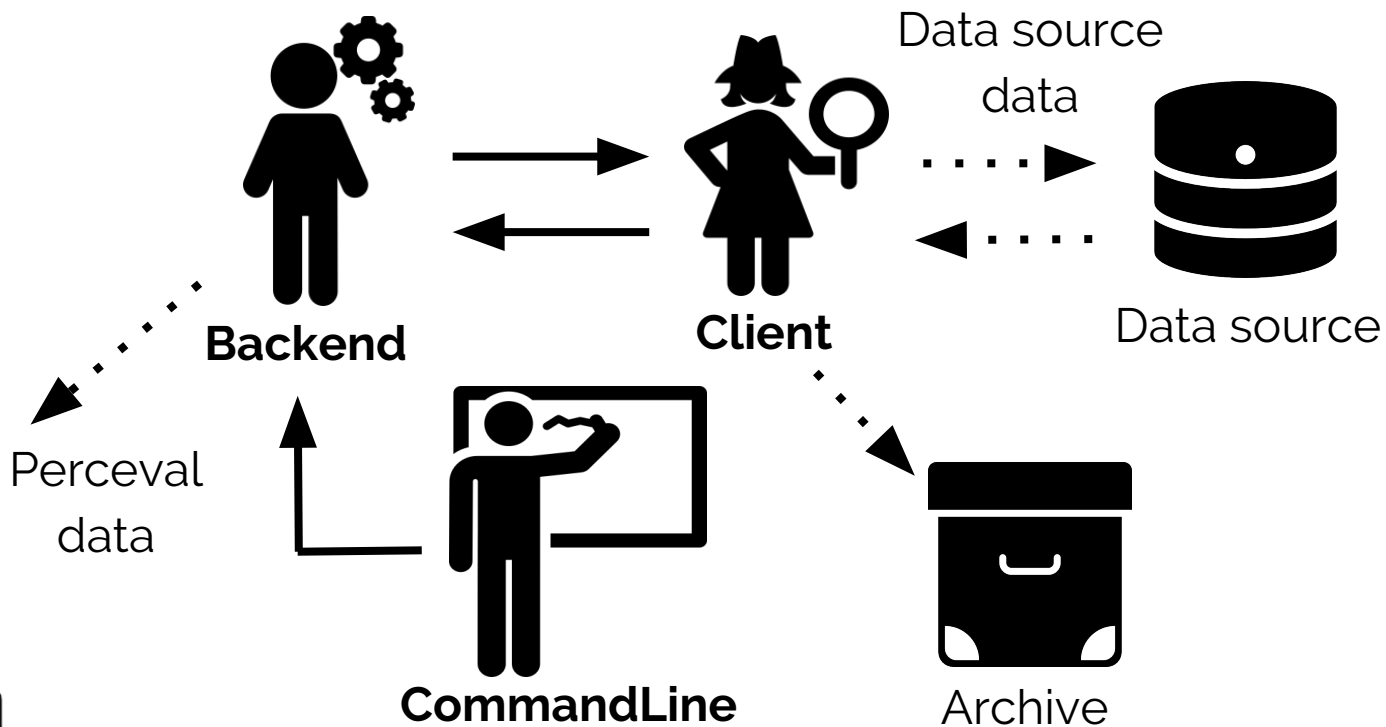
Organization -> 3 actors



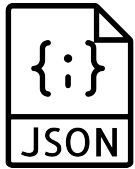
/perceval



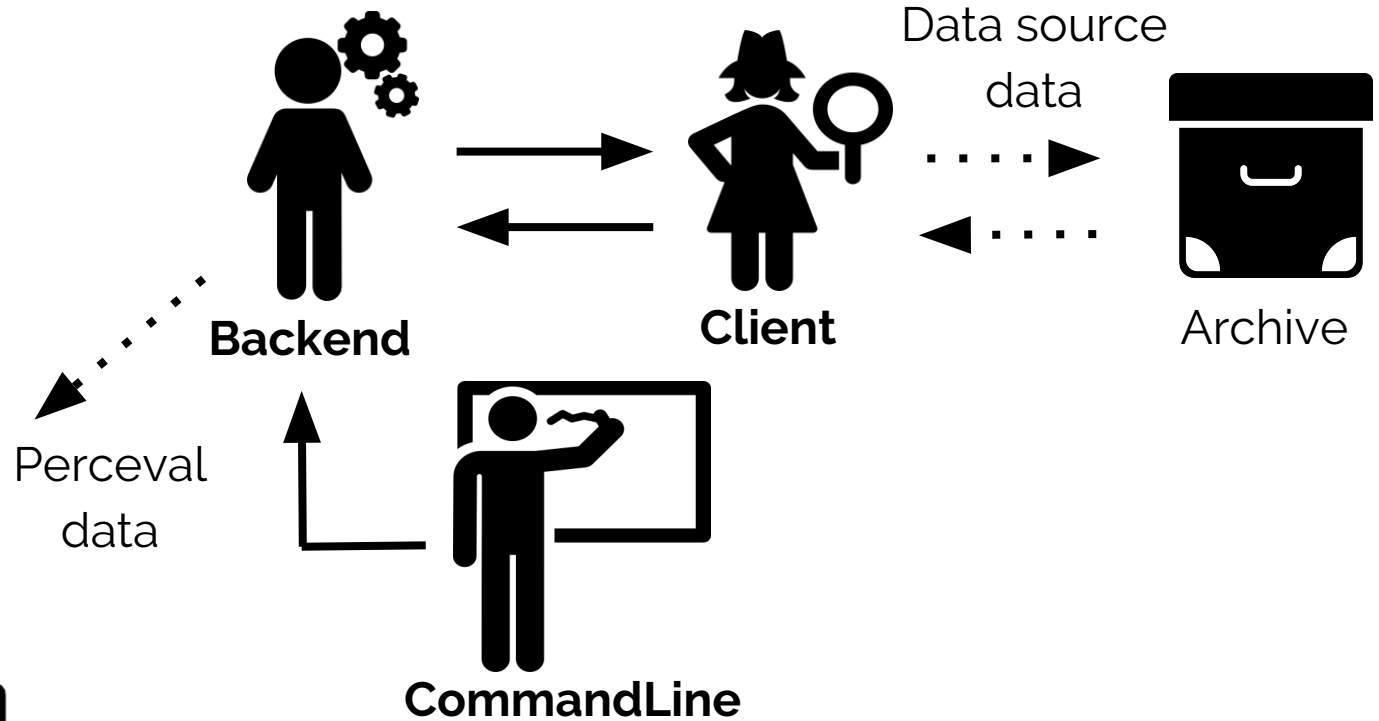
Operations -> **fetch** & fetch-from-archive



/perceval



Operations -> fetch & **fetch-from-archive**



As a program

```
$ perceval github grimoirelab perceval --from-date=2017-03-01 --api-token=5e3d7cc...
```

```
[2018-02-01 12:31:10,683] - Sir Perceval is on his quest.
```

```
[2018-02-01 12:31:11,712] - Getting info for https://api.github.com/users/jgbarah
```

```
[2018-02-01 12:31:12,069] - Getting info for https://api.github.com/users/acs
```

```
...
```

```
[2018-02-01 12:34:22,728] - Sir Perceval completed his quest.
```

As a Python3 library

```
from perceval.backends.core.github import GitHub
```

```
from_date = datetime.datetime(2017, 3, 1)
```

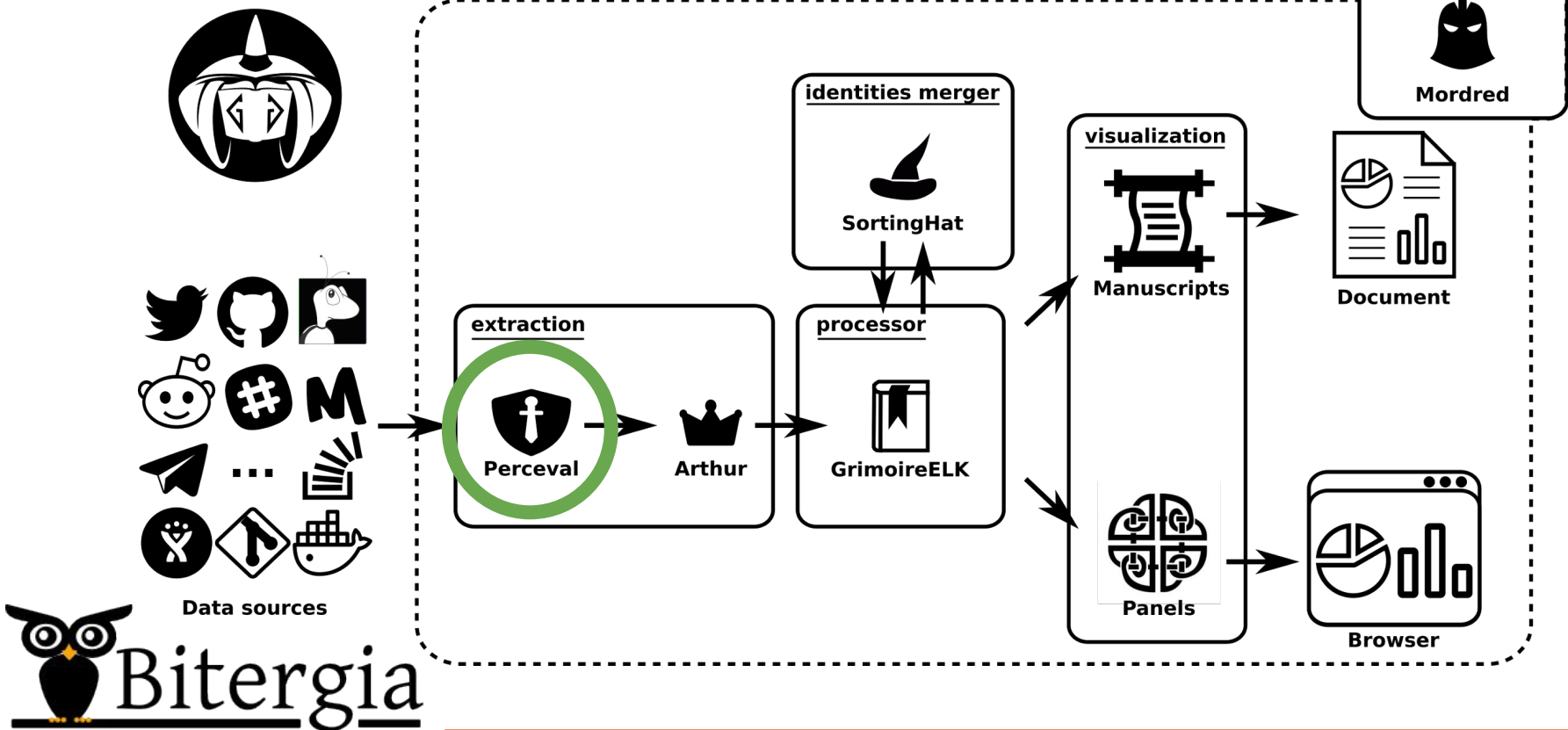
```
github = GitHub("grimoirelab", "perceval", api_token="5e3d7cc...")
```

```
for issue in github.fetch(from_date=from_date):
```

```
    print(issue['data'])
```



/explotation







grimoirelab/perceval
grimoirelab.github.io



youtube.com/watch?v=eH1sYFoHdc8



@grimoirelab
@_valcos_